Comparisons of Job Characteristics

Focus Occupation: Industrial Engineering Technicians (17-3026)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Industrial Engineering Technicians (17-3026)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Production and Processing	6.0	11.9	18.0	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 68

Focus Occupation: Industrial Engineering Technicians (17-3026)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operation Monitoring	6.6	8.0	7.7	0	Current skill level may be sufficient
Quality Control Analysis	5.9	7.9	8.7	>	Skill level is likely sufficient
Troubleshooting	4.5	5.5	5.0	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Industrial Engineering Technicians (17-3026)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation

Oral Comprehension	12.5	12.2	13.6	>	Current ability level is likely sufficient
Oral Expression	12.4	11.9	13.2	>	Current ability level is likely sufficient
Near Vision	11.1	10.5	13.3	>	Current ability level is likely sufficient
Written Comprehension	11.0	10.1	12.3	>	Current ability level is likely sufficient
Category Flexibility	9.0	9.6	10.7	>	Current ability level is likely sufficient
Deductive Reasoning	10.6	9.4	12.8	>>	Current ability level is likely more than sufficient
Problem Sensitivity	11.1	9.2	12.5	>>	Current ability level is likely more than sufficient
Inductive Reasoning	10.2	9.0	12.5	>>	Current ability level is likely more than sufficient
Flexibility of Closure	7.8	8.5	7.9	0	Current ability level may be sufficient
Auditory Attention	5.9	7.6	6.4	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Industrial Engineering Technicians (17-3026)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Work Activities	Exclusivity of Activity
Communicate technical information	4
Conduct performance testing	66
Follow statistical process control procedures	73
Inspect manufactured products or materials	82
Perform safety inspections in industrial, manufacturing or repair setting	32
Prepare safety reports	60
Prepare technical reports or related documentation	22
Read blueprints	10
Read production layouts	66
Read technical drawings	7
Record test results, test procedures, or inspection data	48
Understand engineering data or reports	48
Understand technical operating, service or repair manuals	6
Use spreadsheet software	18
Use technical information in manufacturing or industrial activities	67

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Industrial Engineering Technicians (17-3026)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Tools and Technologies	Exclusivity
Business function specific software	1
Computer printers	2
Computers	1
Content authoring and editing software	1
Electronic and communication measuring and testing instruments	14
Indicating and recording instruments	2
Industry specific software	1
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Special tooling fixtures	16
Viewing and observing instruments and accessories	4

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.